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Scientific Linux – Fermilab Edition Update

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Linux at Fermilab – Q4 Meeting

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Scientific Linux – Current Status

SL5

- SL/F 5.11 – Maintenance

SL6

- SL6- Released 10/26/2015
 - Python6
- SLF6.7 - Released 10/19/2015
 - Rolled out Functional Testing Program

SL7

- SL 7.1 - 04/13/2015
- SL 7.2 – RHEL 7.2 – Expected soon (next month???)
 - Expected features
 - systemd rebase
 - Some virt improvements
 - Lot of bug fixes
 - SCAP Enhancements

Scientific Linux - Fermi Edition 1

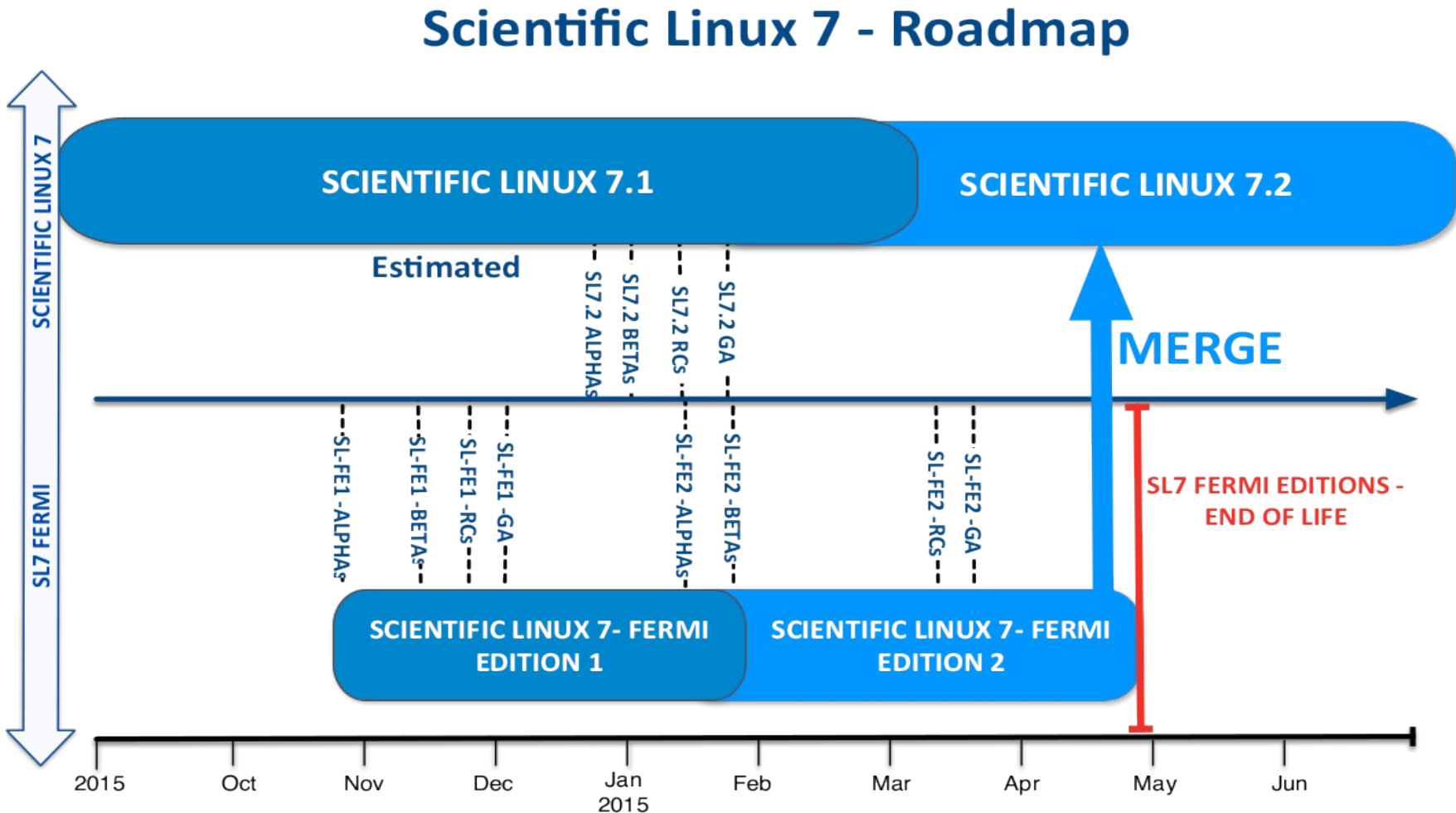
- Local package renaming scheme
 - <Context>-<Type>_<Descriptions>
 - Context - site behaviors (more on this later)
 - E.g. fermilab
 - Type – 4 letter classifying descriptor
 - E.g. base, conf, logo, util
 - Description – specific behavior
 - Ocsinventory
 - New package e.g. fermilab-util_ocsinventory

Bare bones to act as our hardened development base

Linux at Fermilab – Fermilab Edition 2

- Full featured Fermilab version
 - Contextual Framework
 - Full Fermilab context
 - New modular designed architecture
 - Additional site packages

SL 7 – Short Term Roadmap



Advantages to the merge

- Reduction in development time
 - Reducing overhead
 - Less disk required
 - Less complex distribution directory structures
 - Standardization of site behaviors
 - Easy to add and remove Contexts

SL7 Contextual Framework - Advantages

- An modular encapsulation of behaviors
- Will allow extensibility at the OS level through repositories
- Ease of customization
- Plan to publish the framework for HEP collaboration
- Cleaner more modern distributions

Changes to tradition SLF behavior

- Errata and updates – no longer 1 week SL testing
- System administrator will have a slight learning curve
- Overhead of new SL development to create replacements for expected Fermilab behaviors

- Questions?